Volume 20, Number 1, January 2001

Editorials

1 A Hard Act to Follow
Beryl R. Benacerraf, MD

3 Regarding George R. Leopold, MD: Remembrances From a Former Student
Roy A. Filly, MD

Articles

5 Detection of Parenchymal Abnormalities in Acute Pyelonephritis by Pulse Inversion Harmonic Imaging With or Without Microbubble Ultrasonographic Contrast Agent: Correlation With Computed Tomography
Bohyun Kim, MD, Hyo Keun Lim, MD, Moon Hae Choi, MD, Ji Young Woo, MD, Jeong-ah Ryu, MD, Sungmin Kim, MD, Kyong Ran Peck, MD

15 Laparoscopic Ultrasonographic Appearance of the Common Bile Duct Mucosa: A Predictor of Choledocholithiasis
Eren Berber, MD, Adella M. Garland, MD, Arash Foroutani, MD, Andreas String, MD, Allan E. Siperstein, MD

21 Use of Ultrasonographic Guidance in Interventional Musculoskeletal Procedures: A Review From a Single Institution
Carolyn M. Sofka, MD, Andrew J. Collins, MD, Ronald S. Adler, PhD, MD

27 Comparison of Tubal Ring and Corpus Luteum Echogenicities: A Useful Differentiating Characteristic
Mary C. Frates, MD, Aparna Visweswaran, MD, Faye C. Laing, MD

35 Ultrasonographic Evaluation of the Gallbladder: Comparison of Fundamental, Tissue Harmonic, and Pulse Inversion Harmonic Imaging
Hye Suk Hong, MD, Joon Koo Han, MD, Tae Kyoung Kim, MD, Young Hoon Kim, MD, Jung Seok Kim, MD, Joo Hee Cha, MD, Byung Ihn Choi, MD

43 The Utility of Ultrasonographically Guided Large-Core Needle Biopsy: Results From 500 Consecutive Breast Biopsies
Darrell N. Smith, MD, MS, Marla L. Rosenfield Darling, MD, Jack E. Meyer, MD, Christine M. Denison, MD, David I. Rose, MD, Susan Lester, MD, PhD, Andrea Richardson, MD, Carolyn M. Kaelin, MD, Esther Rhei, MD, Roger L. Christian, MD

Case Series

51 Early Detection of Hepatic Artery Thrombosis After Liver Transplantation by Doppler Ultrasonography: Prognostic Implications
Angeles García-Criado, MD, Rosa Gilabert, MD, PhD, Carlos Nicolau, MD, PhD, Isabel Real, MD, Pedro Arguis, MD, Luis Bianchi, MD, PhD, Ramón Vilana, MD, PhD, Juan M. Salmerón, MD, PhD, Juan C. García-Valdecasas, MD, PhD, Concepción Brú, MD, PhD

59 Fused Umbilical Arteries: Prenatal Sonographic Diagnosis and Clinical Significance
Waldo Sepulveda, MD, Victor Dezerega, MD, Eduardo Carstens, MD, Jorge Gutierrez, MD

Case Reports

63 Prenatal Diagnosis of Cerebral Lesions and Multiple Intracardiac Rhabdomyomas in a Fetus With Tuberous Sclerosis
Roland Axt-Fliedner, MD, Husam Qush, MD, Hans-Joachim Hendrik, MD, Kubilay Ertan, MD, Angelika Lindinger, PhD, Robert Mäusle, MD, Klaus Remberger, PhD, Werner Schmidt, PhD

69 Malignant Mesothelioma of the Tunica Vaginalis Testis: Atypical Sonographic Appearance
Kristen Wolanske, MD, Matilde Nino-Murcia, MD

73 Antley-Bixler Syndrome: Report of a Case
Luiz Eduardo Machado, MD, Newton G. Osborne, MD, PhD, Fernando Bonilla-Musoles, MD, PhD

Review Article

79 Ultrasonographically Guided Thyroid Biopsy: A Review With Emphasis on Technique
Patricia Rausch, Kent Nowels, MD, R. Brooke Jeffrey, Jr, MD

Departments

20 Erratum—Contrast-Enhanced Sonography in the Examination of Benign and Malignant Adnexal Masses (J Ultrasound Med 2000; 19:783–788)

32 CME Test

42 Continuing Education

86 Book Review—*Ultrasound: A Practical Approach to Clinical Problems*

Volume 20, Number 2, February 2001

Editorial

87 Sonography in the 21st Century
Philip W. Ralls, MD

Articles

89 Contrast-Enhanced, Wide-Band Harmonic Gray Scale Imaging of Hepatocellular Carcinoma: Correlation With Helical Computed Tomographic Findings
Kazushi Numata, MD, Katsuaki Tanaka, MD, Takayoshi Kiba, MD, Satoru Saito, MD, Masanori Ikeda, MD, Koji Hara, MD, Noriko Tanaka, MD, Manabu Morimoto, MD, Shigeru Iwase, MD, Hisahiko Sekihara, MD

99 Detection of Hepatocellular Carcinomas and Dysplastic Nodules in Cirrhotic Liver: Accuracy of Ultrasonography in Transplant Patients
Chan Kyo Kim, MD, Jae Hoon Lim, MD, Won Jae Lee, MD

105 Effect of Internal Carotid Artery Occlusion on Vertebral Artery Blood Flow: A Duplex Ultrasonographic Evaluation
Carlos Nicolau, MD, Rosa Gilabert, MD, Ángeles Garcia, MD, Jordi Blasco, MD, Ángel Chamorro, MD, Concepció Brú, MD

113 Types of Neurovascular Symptoms and Carotid Plaque Ultrasonic Textural Characteristics
Thomas J. Tegos, MD, Dimitrios Mavrophoros, MD, Michael M. Sabetai, MD, Tarek S. Elatrozy, MD, Surinder Dhanjil, MSc, Maria Karapataki, MSc, Nicolas Witt, MSc, Andrew N. Nicolaides, FRCS

125 Assessment of Endometrial Receptivity by Transvaginal Color Doppler and Three-dimensional Power Doppler Ultrasonography in Patients Undergoing In Vitro Fertilization Procedures
Sanja Kupesic, MD, PhD, Ivanka Bekavac, MD, Drazena Bjelos, MD, Asim Kurjak, MD, PhD

135 Outcome of Pregnancy After Prenatal Diagnosis of Umbilical Vein Varix
Aliyah Rahemtullah, BS, Ellice Lieberman, MD, DrPH, Carol Benson, MD, Mary E. Norton, MD

141 Variation in Fetal Femur Length With Respect to Maternal Race
Thomas D. Shipp, MD, Bryann Bromley, MD, Maria Mascola, MD, Beryl Benacerraf, MD

145 Usefulness of Echocystography in the Study of Vesicoureteral Reflux
Isabel Escape, MD, Javier Martínez, MD, Ferran Bastart, PhD, MD, Carlos Solduga, MD, Pere Sala, MD

Image Presentation

151 Abdominal Three-dimensional Power Doppler Imaging
Alexandra von Herbay, MD, Dieter Häussinger, MD

Review Article

159 Ultrasonographically Guided Biopsy of the Prostate Gland
Andrew L. Altman, MD, Martin I. Resnick, MD

Case Reports

169 Sonographic-Pathologic Correlation of the Hyperechoic Border of an Atypical Hepatic Hemangioma
Michael A. Farrell, MB, BCh, FFRRCSI, J. William Charboneau, MD, Carl C. Reading, MD

171 Idiopathic Diffuse Ectasia of the Intrahepatic and Extrahepatic Arteries
Mindy M. Horrow, MD, Jay B. Patel, MD, Juan A. Oleaga, MD, Kenneth D. Rothstein, MD, David J. Reich, MD

175 Fetal Scalp Cysts: Challenge in Diagnosis and Counseling
Tze Kin Lau, MD, MRCOG, Tse Ngong Leung, MBChB, MRCOG, Tak Yeung Leung, MBChB, MRCOG, Man Wah Selina Pang, MBChB, MRCOG, Wing Hung Tam, MBChB, MRCOG

Departments

122 CME Test

140 Erratum—Case of the Day Answers (J Ultrasound Med 2000; 19; 353-364)

150 Book Review—*The Practice of Breast Ultrasound*

168 Continuing Education

158 Book Review—*Breast Ultrasound*

Volume 20, Number 3, March 2001

Commentary

179 Unilateral Cerebral Ventriculomegaly: Is One Better Than Two?
Beryl R. Benacerraf, MD

Articles

183 Neonatal Nucleated Red Blood Cell Counts: Relationship to Abnormal Fetoplacental Circulation Detected by Doppler Studies
Roland Axt-Fliedner, MD, Kubilay Ertan, MD, Hans-Joachim Hendrik, MD, Werner Schmidt, MD, PhD

191 Subjective Versus Objective Evaluation of Amniotic Fluid Volume of Pregnancies of Less Than 24 Weeks' Gestation: How Can We Be Accurate?
Everett F. Magann, MD, Suneet P. Chauhan, MD, Neil S. Whitworth, PhD, Christy Isler, MD, Christopher Wiggs, MD, John C. Morrison, MD

197 Low-Intensity Pulsed Ultrasound Initiates Bone Healing in Rat Nonunion Fracture Model
Satoshi Takikawa, MD, Nobuzo Matsui, MD, PhD, Takeshi Kokubu, MD, Masaya Tsunoda, MD, PhD, Hiroyuki Fujioka, MD, PhD, Kosaku Mizuno, MD, PhD, Yoshiaki Azuma, PhD

207 Duplex Criteria for Determination of 50% or Greater Carotid Stenosis
David G. Neschis, MD, Frank J. Lexa, MD, Julia T. Davis, RN, RVT, Jeffrey P. Carpenter, MD, RVT

217 Cephalic Vein and Hemodialysis Fistula: Surgeon's Observation Versus Color Doppler Ultrasonographic Findings
Ismail Mihmanli, MD, Kazim Besirli, MD, Sebuh Kurugoglu, MD, Kadir Atakir. MD, Seemab Haider, MD, Gunduz Ogut, MD, Furuzan Numan, MD, Emir Canturk, MD, Ayla Gurel Sayin, MD

223 Analysis of Color Doppler Signal Intensity Variation After Levovist Injection: A New Approach to the Diagnosis of Thyroid Nodules
Stefano Spiezia, MD, Roberto Farina, MD, Gaetana Cerbone, MD, Angelo Pio Assanti, MD, Vincenzo Iovino, MD, Marcello Siciliani, MD, Gaetano Lombardi, MD, Annamaria Colao, PhD

Technical Advance

235 Overlaying Ultrasonographic Images on Direct Vision
George D. Stetten, MD, PhD, Vikram S. Chib

Image Presentation

241 Sonographic Depiction of Ovarian Vascularity and Flow: Current Improvements and Future Applications
Arthur C. Fleischer, MD, Kevin R. Brader, MD

Case Series

251 Intravascular Ultrasonographic Findings in May-Thurner Syndrome (Iliac Vein Compression Syndrome)
Hossam K. Ahmed, MD, Klaus D. Hagspiel, MD

257 Outcome of Prenatally Diagnosed Mild Unilateral Cerebral Ventriculomegaly
Wendy L. Kinzler, MD, John C. Smulian, MD, MPH, David A. McLean, MD, Edwin R. Guzman, MD, Anthony M. Vintzileos, MD

263 Postnatal Outcome of Fetuses With the Prenatal Diagnosis of Asymmetric Hydrocephalus
Sara M. Durfee, MD, Francine M. Kim, MD, Carol B. Benson, MD

269 Ultrasonographic Appearance of *Ascaris lumbricoides* in the Small Bowel
Tariq Mahmood, MD, Naheed Mansoor, MD, Saeed Quraishy, MD, Muhammad Ilyas, MD, Sarwat Hussain, FRCR, DABR

Case Reports

275 Ultrasonographic Appearance of Colon Taeniasis
Damir Fabijanič, MD, Lovel Giunio, MD, MSc, Nikola Ivaniš, MD, MSc, Antonija Fabijanič, MD, Dinko Mirič, MD, Duško Kardum, MD, MSc

279 Sonographic Diagnosis of Multiple Unilateral Ovarian Teratomas
Samuel C. Johnson, MD, George L. Jordan, DO

Departments

182 Continuing Education

206 Book Review—*Practical Head and Neck Ultrasound*

232 CME Test

Volume 20, Number 4, April 2001

Editorial

283 Fetal Three-dimensional Ultrasonography: Today or Tomorrow?
Dolores H. Pretorius, MD, Thomas R. Nelson, PhD

Articles

287 Three-dimensional Ultrasonography and Assessment of the First-Trimester Fetus
Andrew D. Hull, MD, Gina James, RDMS, Carol C. Salerno, MD, Thomas Nelson, PhD, Dolores H. Pretorius, MD

295 Three-dimensional Multiplanar Sonohysterography: Comparison With Conventional Two-dimensional Sonohysterography and X-ray Hysterosalpingography
Anna S. Lev-Toaff, MD, Lisa W. Pinheiro, MD, Gjergi Bega, MD, Alfred B. Kurtz, MD, Barry B. Goldberg, MD

307 Application of Three-dimensional Ultrasonography in the Evaluation of the Fetal Heart
Gjergji Bega, MD, Kathleen Kuhlman, MD, Anna Lev-Toaff, MD, Alfred Kurtz, MD, Ronald Wapner, MD

317 Three-dimensional Quantitative Echocardiographic Assessment of Ventricular Volume in Healthy Human Fetuses and in Fetuses With Congenital Heart Disease
Matthias Meyer-Wittkopf, MD, Andrew Cole, BSc, Stephen G. Cooper, MB, ChB, FRACP, Stephan Schmidt, MD, Gary F. Sholler, MB, BS, FRACP

329 The Transfrontal View: A New Approach to the Visualization of the Fetal Midline Cerebral Structures
Antonella Visentin, MD, Gianluigi Pilu, MD, Pietro Falco, MD, Luciano Bovicelli, MD

335 Low-Resistance Endometrial Arterial Flow in the Exclusion of Ectopic Pregnancy Revisited
Kimberly L. Wherry, MD, Theodore J. Dubinsky, MD, Gayle M. Waitches, DO, Michael L. Richardson, MD, Susan Reed, MD

343 Discrimination of Sonographically Detected Breast Masses Using Frequency Shift Color Doppler Imaging in Combination With Age and Gray Scale Criteria
Pamela T. Bhatti, MSEE, Gerald L. LeCarpentier, PhD, Marilyn A. Roubidoux, MD, J. Brian Fowlkes, PhD, Mark A. Helvie, MD, Paul L. Carson, PhD

351 Patterns of Fluid Accumulation on Screening Ultrasonography for Blunt Abdominal Trauma: Comparison With Site of Injury
Claude B. Sirlin, MD, Giovanna Casola, MD, Michèle A. Brown, MD, Nirav Patel, MD, Eli J. Bendavid, MD, David B. Hoyt, MD

359 Quantification of Fluid on Screening Ultrasonography for Blunt Abdominal Trauma: A Simple Scoring System to Predict Severity of Injury
Claude B. Sirlin, MD, Giovanna Casola, MD, Michèle A. Brown, MD, Nirav Patel, MD, Eli J. Bendavid, MD, David B. Hoyt, MD

365 Cardiac Output Measurements in Congenital Heart Disease: Validation of a Simple, Portable Doppler Method
Tom L. Gentles, MD, John M. Neutze, MD, A. Louise Caulder, MD, E. Richard Greene, PhD

371 Carotid Artery Involvement in Takayasu's Arteritis: Evaluation of the Activity by Ultrasonography
Seong Ho Park, MD, Jin Wook Chung, MD, Joon Woo Lee, MD, Moon Hee Han, MD, Jae Hyung Park, MD

Image Presentation

379 Abdominal Wall Defects: Two- Versus Three-dimensional Ultrasonographic Diagnosis
Fernando Bonilla-Musoles, MD, PhD, Luiz Eduardo Machado, MD, Luiz Antonio Bailão, MD, PhD, Newton G. Osborne, MD, PhD, Francisco Raga, MD

Review Article

391 Three-dimensional Ultrasonographic Imaging in Obstetrics: Present and Future Applications
Gjergji Bega, MD, Anna Lev-Toaff, MD, Kathleen Kuhlman, MD, Alfred Kurtz, MD, Barry Goldberg, MD, Ronald Wapner, MD

Case Series

409 Compression Repair of Ruptured Pseudoaneurysms Guided by Color Doppler Ultrasonography: Report of Two Cases
Meinrad Beer, MD, Matthias Beissert, MD, Jörn Sandstede, MD, Günther Wittenberg, MD, Alexander Tschammler, MD, Dietbert Hahn, MD

413 Ovarian Sclerosing Stromal Tumors: Gray Scale and Color Doppler Sonographic Findings
Myung Sook Lee, MD, Hyeun Cha Cho, MD, Young-Ho Lee, MD, Sung Ran Hong, MD

continues

Case Reports

419 Walker-Warburg Syndrome: Case Report and Review of the Literature
Ana Monteagudo, MD, Abdón Alayón, MD, Patricia Mayberry, RDMS

427 Use of Three-dimensional Ultrasonography in Differentiating Craniosynostosis From Severe Fetal Molding
Deborah Krakow, MD, Thomas Santulli, MD, Lawrence D. Platt, MD

Departments

314 CME Test

328 Continuing Education

334 Book Review—*Ultrasound and Infertility*

432 Film Panel Answers

433 Case of the Day Answers

446 Information for Authors

Volume 20, Number 5, May 2001

Presidential Address

447 State of the American Institute of Ultrasound in Medicine
Lawrence D. Platt, MD

Articles

451 Spiral Computed Tomographic Imaging Related to Computerized Ultrasonographic Images of Carotid Plaque Morphology and Histology
Marie-Louise M. Grønholdt, MD, PhD, Aase Wagner, MD, Britt M. Wiebe, MD, Jon U. Hansen, MSEE, Torben V. Schroeder, MD, DMSc, Jens E. Wilhjelm, MSEE, PhD, Markus Nowak, MSc, Henrik Sillesen, MD, DMSc

459 Can the Dimensions of Artificial Tendon Lesions Be Predicted Ultrasonographically? A Cadaveric Study
Peter Kovacs, MD, Hannes Behensky, MD, Clemens Lottersberger, MD, Gerd Bodner, MD, Erich Brenner, MD, Bernhard Moriggl, MD

465 Ultrasonographic Texture Analysis of Parenchymatous Organs by the Four-Neighborhood-Pixels Algorithm: Clinical Experiment
Wei Yao, MM, Baozhen Zhao, MD, Yuhua Zhao, MD, Weiqi Wang, PhD, Guozheng Qian, PhD

473 Attenuation Coefficient and Sound Speed in Human Myometrium and Uterine Fibroid Tumors
Amid Keshavarzi, MD, Shahram Vaezy, PhD, Peter J. Kaczkowski, PhD, George Keilman, MSEE, Roy Martin, PhD, Emil Y. Chi, PhD, Rochelle Garcia, MD, Victor Y. Fujimoto, MD

481 State-of-the-Art Ultrasonography Is As Accurate As Helical Computed Tomography and Computed Tomographic Angiography for Detecting Unresectable Periampullary Cancer
Martina M. Morrin, FFRRCSI, Jonathan B. Kruskal, MD, PhD, Vassilios Raptopoulos, MD, Karen Weisinger, MD, Richard J. Farrell, MD, Michael L. Steer, MD, Robert A. Kane, MD

491 Gray Scale Sonography of Breast Masses in Adolescent Girls
Keith A. Kronemer, MD, Kyung Rhee, MD, Marilyn J. Siegel, MD, Laura Sievert, MD, Charles F. Hildebolt, DDS, PhD

501 High Detection Rate of Breast Ductal Carcinoma In Situ Calcifications on Mammographically Directed High-Resolution Sonography
Beverly E. Hashimoto, MD, Dawna J. Kramer, MD, Vincent J. Picozzi, MD

continues

Volume 20, Number 5, May 2001 (continued)

509 Detection of Liver Metastases: Comparison of Contrast-Enhanced Wide-Band Harmonic Imaging With Conventional Ultrasonography
Thomas Bernatik, MD, Deike Strobel, MD, Eckhart G. Hahn, MD, Dirk Becker, MD

517 The Role of Contrast-Enhanced Sonography for Radiofrequency Ablation of Liver Tumors
Ji-Bin Liu, MD, Barry B. Goldberg, MD, Daniel A. Merton, BS, RDMS, Nandkumar M. Rawool, MD, Laurence Needleman, MD, Flemming Forsberg, PhD

525 Color/Power Doppler Sonographic Differential Diagnosis of Superficial Lymphadenopathy: Metastasis, Malignant Lymphoma, and Benign Process
Takako Shirakawa, MD, Yukio Miyamoto, MD, Jiro Yamagishi, MD, Kunihiko Fukuda, MD, Shimpei Tada, MD

533 Ultrasonographic Differentiation Between Tuberculous Lymphadenitis and Malignant Lymph Nodes
Satomi Asai, MD, Hayato Miyachi, MD, PhD, Kaori Suzuki, MT, Kazuo Shimamura, MD, PhD, Yasuhiko Ando, MD, PhD

Case Series

539 Flash Echo Gray Scale Imaging With Subtraction in Assessment of Small Hepatocellular Carcinoma Treated With Percutaneous Ethanol Injection: Preliminary Report
Jing-Houng Wang, MD, Sheng-Nan Lu, MD, PhD, Chi-Sin Changchien, MD, Chuan-Mo Lee, MD, Hung-Da Tung, MD, Tsung-Ming Chen, MD

545 Identification of Hepatic Venous Territories in Liver Resection by Using Color Doppler Ultrasonography: Report of Two Cases
Hiroshi Kitamura, MD, Yusuke Miyagawa, MD, Takahide Yokoyama, MD, Akira Kobayashi, MD, Shiro Miwa, MD, Shinichi Miyagawa, MD, Seiji Kawasaki, MD

Case Reports

549 Use of Ultrasonographic Demonstration of Hepatic Venous Flow to Aid Decisions on Venous Reconstruction During Hepatectomy in a Patient With an Inferior Right Hepatic Vein
Ichiro Hirai, MD, Keiichi Kubota, MD, PhD, Taku Aoki, MD, Masato Kato, MD, Yasuji Seyama, MD, Yoshihiro Sakamoto, MD, Tadatoshi Takayama, MD, PhD, Masatoshi Makuuchi, MD, PhD

553 Penile Leiomyosarcoma: Sonographic and Magnetic Resonance Imaging Findings
Nora Dobos, MD, Harvey L. Nisenbaum, MD, Leon Axel, MD, PhD, Keith Van Arsdalen, MD, John E. Tomaszewski, MD

559 Donor-Derived Malignancy: Transmission of Small-Cell Lung Cancer via Renal Transplantation
Thomas C. Winter, MD, Patrick R. Keller, MD, Fred T. Lee, Jr, MD, Myron A. Pozniak, MD

563 Subcutaneous Bronchogenic Cyst: Unusual Ultrasonographic Findings
Hak Soo Lee, MD, Choong Ki Park, MD, Kyung Bin Joo, MD, Hee Jung Shin, MD, Yongsoo Kim, MD, Dong Woo Park, MD, Won Mi Lee, MD, Yong Wook Park, MD

Departments

472 Continuing Medical Education

497 CME Test

516 Erratum—"Role of Color Doppler Sonography in the Assessment of Musculoskeletal Soft Tissue Masses" by Belli et al (J Ultrasound Med 2000; 19:823–830)

558 Book Review—*Atlas of Renal Ultrasonography*

567 Errata—*Official Proceedings, 45th Annual Convention* (J Ultrasound Med 2001; 20 [suppl])

568 Membership Application

Volume 20, Number 6, June 2001

Counterpoint

569 The Genetic Sonogram in Screening for Down Syndrome: Response to the *JAMA* Study
John C. Hobbins, MD, Raymond O. Bahado-Singh, MD, Dennis C. Lezotte, PhD

Commentary

573 Use of Genetic Sonography in Screening for Trisomy 21
Anthony M. Vintzileos, MD

Articles

577 Importance of Evaluating Organ Parenchyma During Screening Abdominal Ultrasonography After Blunt Trauma
Michèle A. Brown, MD, Giovanna Casola, MD, Claude B. Sirlin, MD, David B. Hoyt, MD

587 Sonographic Diagnosis of Distal Biceps Tendon Rupture: A Prospective Study of 25 Cases
Paolo Belli, MD, Melania Costantini, MD, Paoletta Mirk, MD, Antonio Leone, MD, Giovanna Pastore, MD, Pasquale Marano, MD

597 Ultrasonographic Evaluation of Diaphragmatic Motion
Eugenio O. Gerscovich, MD, Michael Cronan, RDMS, John P. McGahan, MD, Kiran Jain, MD, C. Darryl Jones, MD, Craig McDonald, MD

605 Quantifying B-Mode Images of In Vivo Rat Mammary Tumors by the Frequency Dependence of Backscatter
Karen A. Topp, PhD, James F. Zachary, DVM, PhD, William D. O'Brien, Jr, PhD

613 Ultrasonography of the Fetal Thyroid: Nomograms Based on Biparietal Diameter and Gestational Age
Angela C. Ranzini, MD, Cande V. Ananth, PhD, MPH, John C. Smulian, MD, MPH, Michelle Kung, Anita Limbachia, RDMS, Anthony M. Vintzileos, MD

619 The Single Umbilical Artery in a High-Risk Patient Population: What Should be Offered?
Nancy E. Budorick, MD, Thomas F. Kelly, MD, Jonathan A. Dunn, MD, Angela L. Scioscia, MD

631 A Reappraisal of Amniotic Fluid α-Fetoprotein Measurement at the Time of Genetic Amniocentesis and Midtrimester Ultrasonography
Richard K. Silver, MD, Elizabeth A. Leeth, MS, Irene J. Check, PhD

639 Normal Midtrimester (17–20 Weeks) Genetic Sonogram Decreases Amniocentesis Rate in a High-Risk Population
Michael G. Pinette, MD, John Garrett, DO, Anthony Salvo, MD, Jacquelyn Blackstone, DO, Sheila G. Pinette, DO, Nancy Boutin, RDMS, Angelina Cartin

645 Combined Use of Genetic Sonography and Maternal Serum Triple-Marker Screening: An Effective Method for Increasing the Detection of Trisomy 21 in Women Younger Than 35 Years
Greggory R. DeVore, MD, Roberto Romero, MD

Review Article

655 Sonographic Markers of Fetal Trisomies: Second Trimester
David A. Nyberg, MD, Vivienne L. Souter, MD, MRCOG

Case Series

675 Renal Doppler Ultrasonographic Findings in Earthquake Victims With Crush Injury
Kenan Keven, MD, Kenan Ateş, MD, Banu Yağmurlu, MD, Gökhan Nergizoğlu, MD, Sim Kutlay, MD, Sevgi Aras, MD, Hasan Özcan, MD, Neval Duman, MD

681 Imaging of the Ductus Venosus in Neonates: From Patency to Closure
Aruna Vade, MD, Jennifer Lim-Dunham, MD, Nasir Iqbal, MD

Case Reports

689 Color Doppler Ultrasonography of the Superior Mesenteric Artery for Prenatal Ultrasonographic Diagnosis of a Left-Sided Congenital Diaphragmatic Hernia
Laura Detti, MD, Giancarlo Mari, MD, James E. Ferguson, MD

693 Prenatal Ultrasonographic Diagnosis of Sprengel's Deformity
Daryl H. Chinn, MD

699 A Case of Chondrodysplasia Punctata With Features of Osteogenesis Imperfecta Type II
Christopher R. Sidden, BS, Roy A. Filly, MD, Mary E. Norton, MD, Dana R. Kostiner, MD

Departments

576 In Memoriam—Heidi Brigitte Rumscheidt-Patriquin, MD

584 CME Test 1

596 Continuing Medical Education

618 Book Review—*Ultrasonography in Obstetrics and Gynecology*

628 CME Test 2

Volume 20, Number 7, July 2001

Point/Counterpoint

705 Transvaginal Sonographic Evaluation of Fetal Anatomy at 14 to 16 Weeks

Why Is This Technique Not Attractive in the United States?
Ilan E. Timor-Tritsch, MD

Why It Is Not Feasible in the United States
Joshua Copel, MD

Articles

713 Analysis of Three-dimensional Doppler Ultrasonographic Quantitative Measures for the Discrimination of Prostate Cancer
Aaron P. Moskalik, PhD, Mark A. Rubin, MD, Kirk J. Wojno, MD, Robert Bree, MD, Jonathan M. Rubin, MD, PhD, J. Brian Fowlkes, PhD, James E. Montie, MD, Sargum Manley, MS, Paul L. Carson, PhD

723 Deferoxamine-Induced Dysplasia of the Knee: Sonographic Features and Diagnostic Performance Compared With Magnetic Resonance Imaging
Yu-leung Chan, MD, FRCR, Chiu-wing W. Chu, MD, FRCR, Ki-wai Chik, MD, MRCP, Lai-man Pang, MD, FRCR, Ming-kwong Shing, MD, MRCP, Chi-kong Li, MD, FRCP

729 Hydatid Liver Cyst: An 11-Year Experience of Treatment With Percutaneous Aspiration and Ethanol Injection
Antonio Giorgio, MD, Luciano Tarantino, MD, Giorgio de Stefano, MD, Giampiero Francica, MD, Nicola Mariniello, MD, Nunzia Farella, MD, Anna Perrotta, MD, Vincenza Aloisio, MD, Francesco Esposito, MD

739 Sonographic Evaluation of Anatomic Results After the Pubovaginal Sling Procedure for Stress Urinary Incontinence
Hann-Chorng Kuo, MD

749 Sonographically Guided Renal Mass Biopsy: Indications and Efficacy
Pamela T. Johnson, MD, Levon N. Nazarian, MD, Rick I. Feld, MD, Laurence Needleman, MD, Anna S. Lev-Toaff, MD, Sharon R. Segal, DO, Ethan J. Halpern, MD

757 Frequency of a Monochorionic Pair in Multiple Gestations: Relationship to Mode of Conception
Jeanne S. Chow, MD, Carol B. Benson, MD, Catherine Racowsky, PhD, Peter M. Doubilet, MD, PhD, Elizabeth Ginsburg, MD

763 Fetal Intracardiac Echogenic Foci: Visualization Depends on the Orientation of the 4-Chamber View
Angela C. Ranzini, MD, David A. McLean, MD, Shubra Sharma, MA, RDMS, Anthony M. Vintzileos, MD

Technical Advance

767 Shape Reconstruction of the Left Ventricle: Accuracy of Limited-Plane Three-dimensional Echocardiography
Decho Jakrapanichakul, MD, Kazuaki Tanabe, MD, PhD, Marek Belohlavek, MD, PhD, James B. Seward, MD

Review Article

775 Sonographic Screening for Fetal Aneuploidy: First Trimester
Vivienne L. Souter, MD, David A. Nyberg, MD

Case Series

791 Retroperitoneal Abscess and Mycotic Aortic Aneurysm: Unusual Septic Complications of Central Vascular Line Placement in Premature Infants
Jennifer E. Lim-Dunham, MD, Christine N. Duncan, MD, David K. Yousefzadeh, MD, Tamar Ben-Ami, MD

795 Color Doppler and Duplex Sonography in 5 Patients With Thoracic Outlet Syndrome
Raju Wadhwani, DMRD, DNB, Nitin Chaubal, MD, Rajan Sukthankar, MD, Manu Shroff, MD, Sanjay Agarwala, MS

Case Reports

803 Fetal Craniopharyngioma: Early Prenatal Diagnosis
Alberto Sosa-Olavarría, MD, PhD, Luis Díaz-Guerrero, MD, Aldo Reigoza, MD, Alberto Bermúdez, MD, Marianela Murillo, MD

807 Right-Sided Diverticulitis Mistaken for Appendicitis on Ultrasonography in a 21-Year-Old Man
Richard E. Person, MD, Christopher J. Conlin, MD

Departments

712 Continuing Medical Education

748 Book Review—*Endoscopic Ultrasonography*

754 CME Test 1

761 CME Test 2

Volume 20, Number 8, August 2001

Editorial

811 Imaging the Human Corpus Luteum
Anna K. Parsons, MD

Articles

821 Sonographic and Doppler Characteristics of the Corpus Luteum: Can They Predict Pregnancy Outcome?
Mary C. Frates, MD, Peter M. Doubilet, MD, PhD, Sara M. Durfee, MD, Donald N. Di Salvo, MD, Faye C. Laing, MD, Douglas L. Brown, MD, Carol B. Benson, MD, Joseph A. Hill, MD

829 Preoperative Evaluation of Pelvic Tumors by Doppler and Three-dimensional Sonography
Asim Kurjak, MD, PhD, Sanja Kupesic, MD, PhD, Vladimir Sparac, MD, MSc, Ivanka Bekavac, MD

841 Assessment of a New Logistic Model in the Preoperative Evaluation of Adnexal Masses
Juan Luis Alcázar, MD, Tania Errasti, MD, Carmen Laparte, MD, Matías Jurado, MD, Guillermo López-García, MD

849 Subtorsion of the Ovary: Sonographic Features and Clinical Management
Josef Shalev, MD, Reuven Mashiach, MD, Itai Bar-Hava, MD, Ofer Girtler, MD, Jacob Bar, MD, Dov Dicker, MD, Israel Meizner, MD

859 Significance of the Solid Component in Predicting Malignancy in Ovarian Cystic Teratomas: Diagnostic Considerations
Anton Mlikotic, MD, Laron McPhaul, MD, Gail C. Hansen, MD, Robert M. Sinow, MD

869 Sonographic Diagnosis of Pelvic Adhesions in Patients After Ovum Pickup
Josef Shalev, MD, Reuven Mashiach, MD, Benjamin Fisch, MD, PhD, Moshe Royburt, MD, Itai Bar-Hava, MD, Haim Krissi, MD, Israel Meizner, MD

877 Sonohysterography for the Diagnosis of Residual Trophoblastic Tissue
Yaron Zalel, MD, Shlomo B. Cohen, MD, Mery Oren, MD, Daniel S. Seidman, MD, Mati Zolti, MD, Reuven Achiron, MD, Mordechai Goldenberg, MD

883 Fetal Stimulation by Pulsed Diagnostic Ultrasound
Mostafa Fatemi, PhD, Paul L. Ogburn, Jr, MD, James F. Greenleaf, PhD

891 An Approach to Acoustic Properties of Biological Tissues Using Acoustic Micrographs of Attenuation Constant and Sound Speed
Hiroaki Okawai, DM, DE, Kazuto Kobayashi, Shin'ichi Nitta, MD, DM

Case Series

909 Translabial Sonography of Vaginal Fibroids: Report of 2 Cases and Review of the Literature
William Torreggiani, MB, Charles Zwirewich, MD, Ian Lyburn, MB, Alison Harris, MB, Jenny E. Davis, MD, David Wilkie, MD, Howard Fenster, MD, Lorie Marchinkow, RTR

915 Sonographic Features of Ovarian Cystadenofibromas: Spectrum of Findings
Juan Luis Alcázar, MD, Tania Errasti, MD, José Angel Minguez, MD, María José Galán, MD, Manuel García-Manero, MD, Carolina Ceamanos, MD

921 Sonographic Diagnosis of Ulnar Artery Aneurysm in Hypothenar Hammer Syndrome: Report of 2 Cases
Thomas E. Velling, MD, Frank J. Brennan, MD, Lee D. Hall, MD, Michael L. Puckett, MD, T. Roland Reeves, MD, Craig C. Powell, MD

Case Reports

925 A False-Positive Diagnosis of a Prenatal Encephalocele on Transvaginal Ultrasonography
Carrie A. Noriega, Alfred D. Fleming, MD, FACOG, Robert G. Bonebrake, MD, FACOG

929 Lymphoma of the Penis: Sonographic Findings
Laura Buñesch Villalba, MD, Xavier Bargalló Castelló, MD, Ramon Vilana Puig, MD, Marta Burrel Samaranch, MD, Concepció Brú Saumell, MD

933 Synchronous Bilateral Testicular Torsion in an Adult
Timothy L. Washowich, MD

Departments

820 Letter to the Editor

855 CME Test Information

856 CME Test 1

858 Continuing Medical Education

867 CME Test 2

881 Erratum—Gray Scale Sonography of Breast Masses in Adolescent Girls (J Ultrasound Med 2001; 20:491–496)

882 Book Review

Volume 20, Number 9, September 2001

Editorial

937 Paradigm Shifts Provided by a New Means of Seeing: The Educational Value of Three-dimensional Ultrasonography
Steven C. Rose, MD

Articles

941 Feasibility of Performing a Virtual Patient Examination Using Three-dimensional Ultrasonographic Data Acquired at Remote Locations
Thomas R. Nelson, PhD, Dolores H. Pretorius, MD, Anna Lev-Toaff, MD, Gjergji Bega, MD, Nancy E. Budorick, MD, Kathryn A. Hollenbach, PhD, Laurence Needleman, MD

953 Comparison of Axial Reconstructed Ultrasonographic Images From Three-dimensional Data Volumes and Computed Tomographic Scans in the Documentation and Detection of Liver Lesions
Matthias Beissert, MD, Manfred Jenett, MD, Christine Keßler, MD, Marc Keberle, MD, Roland Jahns, MD, Dietbert Hahn, MD

959 Intraoperative Sonographic Localization of Breast Masses: Success With Specimen Sonography and Surgical Bed Sonography to Confirm Excision
Rick I. Feld, MD, Anne L. Rosenberg, MD, Levon N. Nazarian, MD, Laurence Needleman, MD, Anna S. Lev-Toaff, MD, Sharon R. Segal, DO, Pamela T. Johnson, MD, Laurence Parker, PhD, Teresa O'Reilly

967 Fourteen-Gauge Ultrasonographically Guided Large-Core Needle Biopsy of Breast Masses
Joelle M. Schoonjans, MD, Rachel F. Brem, MD

973 A Pilot Study of Time Allocation and Reimbursement for Routine Obstetric Ultrasonography
Kathy S. Stewart, MD, Marjorie C. Treadwell, MD, Ivan E. Zador, PhD

979 Safety Levels for Exposure of Cornea and Lens to Very High-Frequency Ultrasound
Ronald H. Silverman, PhD, Frederic L. Lizzi, EngScD, Bogdan G. Ursea, MD, Laura Cozzarelli, MD, Jeffrey A. Ketterling, PhD, Cheri X. Deng, PhD, Robert Folberg, MD, D. Jackson Coleman, MD

987 Lymph Node Hilus: Gray Scale and Power Doppler Sonography of Cervical Nodes
Anil Ahuja, FRCR, Michael Ying, MPhil, Ann King, FRCR, Hok Yuen Yuen, FRCR

997 Sonography and Color Doppler Sonography for Monitoring Conservatively Treated Infantile Hypertrophic Pyloric Stenosis
Michael Riccabona, MD, Christa Weitzer, MD, Franz Lindbichler, MD, Johann Mayr, MD

1005 The Use of Renal Doppler Ultrasonography to Diagnose Patent Ductus Arteriosus in Preterm Infants
Damien L. Armstrong, MB, BCh, MRCP, MSc, Rita L. Teele, MD, FRACR, Carl A. Kuschel, MB, ChB, FRACP, Jane E. Harding, MB, ChB, DPhil, FRACP

Technical Note

1011 Sonographic Evaluation of the Median Nerve at the Wrist
David A. Jamadar, MB, BS, Jon A. Jacobson, MD, Curtis W. Hayes, MD

Case Reports

1015 Fibroepithelial Bladder Polyp and Renal Tubular Dysgenesis: An Unusual Cause of Third-Trimester Oligohydramnios
Bryann Bromley, MD, Drucilla J. Roberts, MD, Erin E. Tracy, MD, Michael F. Greene, MD, Thomas D. Shipp, MD, Beryl R. Benacerraf, MD

1021 Adenomyoepithelioma of the Breast
Selma Tukel, MD, Evren Ustuner, MD, Suat Kemal Aytaç, MD

Departments

958 Letter to the Editor

993 CME Test Information

994 CME Test 1

996 Continuing Medical Education

1003 CME Test 2

1020 Book Review

Volume 20, Number 10, October 2001

Consensus Report

1025 Evaluation of the Woman With Postmenopausal Bleeding: Society of Radiologists in Ultrasound–Sponsored Consensus Conference Statement
Ruth B. Goldstein, MD, Moderator, Robert L. Bree, MD, Carol B. Benson, MD, Beryl R. Benacerraf, MD, Jeffrey D. Bloss, MD, Ruth Carlos, MD, Arthur C. Fleischer, MD, Steven R. Goldstein, MD, Robert B. Hunt, MD, Robert J. Kurman, MD, Alfred B. Kurtz, MD, Faye C. Laing, MD, Anna K. Parsons, MD, Rebecca Smith-Bindman, MD, Joan Walker, MD

Commentary

1037 Society of Radiologists in Ultrasound Consensus Conference Statement on Postmenopausal Bleeding
Peter M. Doubilet, MD, PhD

Articles

1043 Is an Isolated Fetal Cardiac Echogenic Focus an Indication for Fetal Echocardiography?
Michael J. Barsoom, MD, Deborah M. Feldman, MD, Adam F. Borgida, MD, Danielle Esters, MD, Daniel Diana, MD, James F. X. Egan, MD

1047 Are Maternal and Sonographic Factors Associated With the Detection of a Fetal Echogenic Cardiac Focus?
Hugh M. Ehrenberg, MD, Richard L. Fischer, MD, Mary L. Hediger, PhD, Clare Hansen, RN, Darlene Stine, RDMS

1053 Isolated Sonographic Markers for Detection of Fetal Down Syndrome in the Second Trimester of Pregnancy
David A. Nyberg, MD, Vivienne L. Souter, MD, Amira El-Bastawissi, MBCB, PhD, Scott Young, MD, Fred Luthhardt, MD, David A. Luthy, MD

1065 Evaluation and Follow-up of Fetal Hydronephrosis
Deborah M. Feldman, MD, Marvalyn DeCambre, MD, Erin Kong, Adam Borgida, MD, Mujgan Jamil, MBBS, Patrick McKenna, MD, James F. X. Egan, MD

1071 Ultrasonographic Evaluation of the Cervix: Transperineal Versus Endovaginal Imaging
Barbara S. Hertzberg, MD, Elizabeth Livingston, MD, David M. DeLong, PhD, Patricia J. McNally, RDMS, Constance K. Fazekas, RDMS, RVT, Mark A. Kliewer, MD

1083 Ovarian and Adnexal Torsion: Spectrum of Sonographic Findings With Pathologic Correlation
Ferah Albayram, MD, Ulrike M. Hamper, MD, MBA

1091 Differential Diagnosis of Solid Breast Lesions: Contribution of Doppler Studies to Mammography and Gray Scale Imaging
Ayşegül Özdemir, MD, Hakan Özdemir, MD, Işıl Maral, MD, Öznur Konuş, MD, Seçil Yücel, MD, Sedat Işık, MD

Image Presentation

1105 Saline Infusion Sonohysterography in Nonpregnant Women With Previous Cesarean Delivery: The "Niche" in the Scar
Ana Monteagudo, MD, Carlos Carreno, MD, Ilan E. Timor-Tritsch, MD

Case Series

1117 Fetus Acardius: Two- and Three-dimensional Ultrasonographic Diagnoses
Fernando Bonilla-Musoles, MD, PhD, Luiz Eduardo Machado, MD, Francisco Raga, MD, Newton G. Osborne, MD, PhD

Case Reports

1129 Diagnosis of Extrarenal Arteriovenous Fistula by Color Doppler Flow Imaging
Jian-Chu Li, MD, Sheng Cai, MD, Yuxin Jiang, MD, Jinxi Zhang, MD, Hong Tao Mao, MD

1133 Congenital Chloride Diarrhea: Antenatal Ultrasonographic Findings in Siblings
Sun Ho Kim, MD, Seung Hyup Kim, MD

1137 Trisomy 13 Appearing As a Mimic of a Triploid Partial Mole
William M. Curtin, MD, Michael P. Marcotte, MD, Linda L. Myers, RDMS, Brian C. Brost, MD

1141 Resolution of Hydrops Fetalis Despite Persistent Fetal Tachycardia
Lori E. Silver, MD, Lawrence D. Platt, MD, Thomas V. Santulli, Jr, MD, Dru E. Carlson, MD

Departments

1064 Book Review

1070 Continuing Medical Education

1079 CME Test Information

1080 CME Test 1

1102 CME Test 2

Volume 20, Number 11, November 2001

Editorial

1147 Prenatal Informed Consent for Sonogram: The Time for First-Trimester Nuchal Translucency Has Come
Stephen T. Chasen, MD, Daniel W. Skupski, MD, Laurence B. McCullough, PhD, Frank A. Chervenak, MD

Commentary

1159 Prenatal Diagnosis of Cleft Lip: What the Sonologist Needs to Tell the Surgeon
John B. Mulliken, MD, Beryl R. Benacerraf, MD

Articles

1165 Prenatal Ultrasonography and the Diagnosis of Fetal Cleft Lip
Julian N. Robinson, MD, Thomas F. McElrath, MD, Carol B. Benson, MD, Peter M. Doubilet, MD, Marie-Noel Westgate, Lewis Holmes, MD, Ellice S. Lieberman, MD, Errol R. Norwitz, MD

1175 Prevalence of Aneuploidy and Additional Anatomic Abnormalities in Fetuses and Neonates With Cleft Lip With or Without Cleft Palate: A Population-Based Study in Utah
Shannon J. Walker, MD, Robert H. Ball, MD, Catherine J. Babcook, MD, FRCP(C), Marcia M. Feldkamp, PA, MSPH

1183 Early Second-Trimester Low Umbilical Coiling Index Predicts Small-for-Gestational-Age Fetuses
Shimon Degani, MD, Zvi Leibovich, MD, Israel Shapiro, MD, Ron Gonen, MD, Gonen Ohel, MD

1189 Echo Color Doppler Findings in Postpubertal Mumps Epididymo-orchitis
Luciano Tarantino, MD, Antonio Giorgio, MD, Giorgio de Stefano, MD, Nunzia Farella, MD

1197 Cardiopulmonary Function in Rats With Lung Hemorrhage Induced by Pulsed Ultrasound Exposure
Jeffery M. Kramer, PhD, Tony G. Waldrop, PhD, Leon A. Frizzell, PhD, James F. Zachary, DVM, PhD, William D. O'Brien, Jr, PhD

1207 Doppler Measurement of Cerebral and Lower Limb Flow During a Lower Body Negative Pressure Test for Predicting Orthostatic Intolerance
Nathalie Tobal, PhD, Jerome Roumy, MD, Stephane Herault, PhD, Galina Fomina, MD, Philippe Arbeille, PhD, MD

Technical Advance

1219 Evaluation of a Gel-Coupled Quantitative Ultrasound Device for Bone Status Assessment
Christopher F. Njeh, PhD, Meadow B. Chen, MD, Bo Fan, MD, Mikayel Grigorian, MD, John A. Shepherd, PhD, Isra Saeed, MD, Harry K. Genant, MD

Case Series

1229 Sonographic Findings of Solid and Papillary Epithelial Neoplasm of the Pancreas
Dong Ho Lee, MD, Bum Ha Yi, MD, Joo Won Lim, MD, Young Tae Ko, MD

1233 Organizing Posterior Fossa Hematomas Simulating Developmental Cysts on Prenatal Imaging: Report of 3 Cases
Rebecca D. Folkerth, MD, Margaret E. McLaughlin, MD, Deborah Levine, MD

Case Reports

1241 Endosonographic Features of a Granular Cell Tumor of the Colon
Atsushi Irisawa, MD, Lyndon V. Hernandez, MD, Manoop S. Bhutani, MD

1245 Fibroma of the Testicular Tunics: An Unusual Extratesticular Intrascrotal Mass
Elizabeth A. Sadowski, MD, Caryl G. Salomon, MD, Eva M. Wojcik, MD, David Albala, MD

1249 Thyroid Gland Rupture After Blunt Neck Trauma: Sonographic and Computed Tomographic Findings
Francisco Javier Pérez Fontán, MD, Marta Santos Hernández, MD, Sandra Pombo Vázquez, MD, Maximino Lago Novoa, MD

1253 Transvaginal Ultrasonographic Depiction of a Gartner Duct Cyst
David M. Sherer, MD, Ovadia Abulafia, MD

1257 Prenatal Diagnosis of Intra-abdominal Mature Testicular Teratoma
Shing S. N. Siu, MBBS, BSc, MRCOG, Tse N. Leung, MBChB, MMed, MRCOG, DCh, FHKAM, Tak Y. Leung, MBChB, MRCOG, FHKAM, Shun W. Ng, MBChB, Chung K. Yeung, MBBS, MD, FRCSE, FRCSG, FRACS, FACS, FHKAM, DCh, Tze K. Lau, MBChB, MD, MRCOG, FHKAM, MMed

Departments

1153 Letter to the Editor—The Genetic Sonogram in Screening for Down Syndrome

1171 CME Test Information

1172 CME Test 1

1174 Book Review—*Ultrasonography of the Prenatal and Neonatal Brain*

1181 CME Test 2

1252 Continuing Medical Education

1261 Letter to the Editor—Ultrasonographically Guided Thyroid Biopsy

Volume 20, Number 12, December 2001

Editorial

1263 Ultrasound Into the Future
Thomas R. Nelson, PhD

Articles

1265 Reliability and Validity of Three-dimensional Fetal Brain Volumes
Loraine K. Endres, MD, Leeber Cohen, MD

1271 Three-dimensional Sonographic Assessment of Fetal Behavior in the Early Second Trimester of Pregnancy
Atsushi Kuno, MD, PhD, Masashi Akiyama, MD, PhD, Chizu Yamashiro, MD, PhD, Hirokazu Tanaka, MD, PhD, Toshihiro Yanagihara, MD, PhD, Toshiyuki Hata, MD, PhD

1277 Spectrum of Normal Intrauterine Cavity Sonographic Findings After First-Trimester Abortion
Itai Bar-Hava, MD, Sarit Aschkenazi, MD, Raoul Orvieto, MD, Tamar Perri, MD, Joseph Shalev, MD, Dov Dicker, MD, Zion Ben-Rafael, MD, Arie Dekel, MD

1283 Birth Weight Prediction by Three-dimensional Ultrasonography: Fractional Limb Volume
Wesley Lee, MD, Russell L. Deter, MD, John D. Ebersole, MD, Raywin Huang, PhD, Karolien Blanckaert, MD, Roberto Romero, MD

1293 Lack of Association Between Carotid Artery Volume Blood Flow and Cardiac Output
Bernhard M. Eicke, MD, Jens von Schlichting, MD, Sabine Mohr-Kahaly, MD, Andreas Schlosser, MD, R. Stephan von Bardeleben, MD, Frank Krummenauer, PhD, Hanns C. Hopf, MD

1303 Quantification of Flow Volume With a New Digital Three-dimensional Color Doppler Flow Approach: An In Vitro Study
Jun Li, MD, Xiaokui Li, MD, Yoshiki Mori, MD, Rosemary A. Rusk, MD, Jong-Soo Lee, MD, Crispin H. Davies, MD, Ikuo Hashimoto, MD, Ghada O. M. El-Sedfy, MD, Xiang-Ning Li, MD, PhD, David J. Sahn, MD

1313 Effectiveness of Transcranial and Transthoracic Ultrasound and Microbubbles in Dissolving Intravascular Thrombi
Thomas R. Porter, MD, David Kricsfeld, BS, John Lof, MS, E. Carr Everbach, PhD, Feng Xie, MD

1329 Pattern of Doppler Flow Indices at the Carotid Bifurcation: Evaluation by Hemodynamic Color Doppler Imaging
G. Sharat Lin, PhD, Veena S. Naval, MA

Case Series

1341 Usefulness of the Suspended Microbubble Sign in Differentiating Empyemic and Nonempyemic Hydropneumothorax
Fang-Chi Lin, MD, Chung-Wei Chou, MD, Shi-Chuan Chang, MD, PhD

1347 Role of Doppler Sonography in the Evaluation of Accessory Spleens After Splenectomy
Andreas M. Herneth, MD, Peter Pokieser, MD, Marcel O. Philipp, MS, Till R. Bader, MD, Thomas H. Helbich, MD, Reinhold Mallek, MD, Gerhard H. Mostbeck, MD

Case Reports

1353 Deep Femoral Artery Pseudoaneurysm Due to Brucellosis
Evren Ustuner, MD, Ayse Erden, MD, Suat Fitoz, MD, Ilhan Erden, MD, Tanzer Sancak, MD

1357 Three-dimensional Sonographic Imaging of a Highly Developed Fetus In Fetu With Spontaneous Movement of the Extremities
David C. Jones, MD, Miguel Reyes-Múgica, MD, Patrick G. Gallagher, MD, Peggy Fricks, RDMS, Robert J. Touloukian, MD, Joshua A. Copel, MD

1365 Use of Three-dimensional Ultrasonography for Prenatal Diagnosis of Ambiguous Genitalia
C. Scott Naylor, MD, Dru E. Carlson, MD, Thomas Santulli, Jr, MD, Lawrence D. Platt, MD

1369 Congenital Glioblastoma Multiforme: Prenatal Diagnosis on the Basis of Sonography and Magnetic Resonance Imaging
Diane F. Morof, MD, Deborah Levine, MD, Keith F. Stringer, MD, Ian Grable, MD, Rebecca Folkerth, MD

Departments

1299 CME Test Information

1300 CME Test 1

1302 Continuing Medical Education

1312 Book Review—*Case Review: General and Vascular Ultrasound*

1326 CME Test 2

1376 Letter to the Editor—Imaging the Human Corpus Luteum

1377 Letter to the Editor—Hydatid Liver Cyst Treatment